Recombinant Full Length Human POU5F1, His-tagged

Cat. No. POU5F1-8470H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human POU5F1, fused with His tag, was expressed in E. coli and purified by affinity chromatography in combination with FPLC columns.
Species	Human
Source	E.coli
Description	This gene encodes a transcription factor containing a POU homeodomain. This transcription factor plays a role in embryonic development. especially during early embryogenesis. and it is necessary for embryonic stem cell pluripotency. A translocation of this gene with the Ewing"s sarcoma gene. t(6.22)(p21.q12). has been linked to tumor formation. Alternative splicing. as well as usage of alternative translation initiation codons. results in multiple isoforms. one of which initiates at a non-AUG (CUG) start codon. Related pseudogenes have been identified on chromosomes 1. 3. 8. 10. and 12.
Form	20 mM Tris-Cl, pH 7.9, 20% Glycerol. 100 mM KCl. 1 mM DTT and 0.2 mM EDTA
Molecular Mass	38.6 kDa
Endotoxin	Less than 1.0 EU/μg by LAL method
Purity	>95% as determined by SDS-PAGE
Storage	-80 °C

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Shipping	Dry Ice

GENE INFORMATION

Gene Name	POU5F1 POU class 5 homeobox 1 [Homo sapiens]
Official Symbol	POU5F1
Synonyms	POU5F1; POU class 5 homeobox 1; OTF3, POU domain class 5, transcription factor 1; POU domain, class 5, transcription factor 1; MGC22487; OCT3; Oct4; octamer-binding protein 3; octamer-binding protein 4; POU domain transcription factor OCT4; octamer-binding transcription factor 3; octamer-binding transcription factor-3; POU-type homeodomain-containing DNA-binding protein; OCT4; OTF3; OTF4; OTF-3; Oct-3; Oct-4;
Gene ID	5460
mRNA Refseq	NM_001173531
Protein Refseq	NP_001167002
MIM	164177
UniProt ID	Q01860
Chromosome Location	6p21.33
Pathway	HIF-2-alpha transcription factor network, organism-specific biosystem; Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;

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Function	DNA binding; miRNA binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding RNA polymerase II transcription factor activity; sequence-specific DNA binding transcription factor activity; transcription factor binding; transcription regulatory region DNA binding; ubiquitin protein ligase binding;

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